

FSB Risk Management Policy

Purpose

The purpose of this policy is to ensure that risks are identified, classified, managed to the extent possible, and tracked, on FSW development efforts.

Flight Projects will usually have a risk tracking tool, and will typically require that FSW risks be entered into the Project tool, however there is value in the Flight Software Branch performing independent risk tracking.

Branch-level risk tracking:

- Allows all FSW risks to be tracked - not all FSW risks need to be elevated to Project visibility, but they all need to be managed.
- Allows development risks to be captured and applied to future FSB efforts.
- Matures FSB knowledge of risks and mitigation strategies.
- Allows oversight of risks across multiple development efforts.
- Allows instances of problems, and the effectiveness of mitigation strategies, to be tracked.

Policy Statements

- (1) This policy applies to all mission FSW development efforts.
- (2) Risk management will be the responsibility of the FSW Systems Manager (SM) and, for in-house missions, the Product Development Lead (PDL).
- (3) The FSW SM will perform an initial risk assessment immediately after the mission concept review.
- (4) At the time of writing of the in-house FSW Product Plan, the PDL will perform an initial risk assessment. An overview of the initial risk assessment will be documented in the Product Plan.
- (5) Detailed risk statements, mitigation plans, and contingency plans will be entered into the FSB risk tracking tool.
- (6) Risks will be re-evaluated on a regularly scheduled basis (at least monthly), and when significant changes in project conditions occur. Changes will be entered into the FSB risk tracking tool, but need not be updated in the Product Plan unless extensive re-planning is necessary.
- (7) Risk status will be reviewed by FSB management during FSW development status reviews.
- (8) In conjunction with this policy FSB will use the baselined ISD processes: ISD Software Risk Identification, and ISD Software Risk Management and Control. The FSB risk tracking tool/database will be used wherever these processes refer to a "Risk Management Tool" or "database".

Ownership and Approval Authority

The FSW Branch Head is the owner of this policy. The FSB Standards CCB has approval authority.

**Change
History**

Version	Date	Change
0.1	07/10/03	Initial draft.
0.2	08/25/03	SM role added.
1.0	05/03/04	Additional purpose statements added.
1.1	03/29/05	Statement (8) added